

35TH INTERNATIONAL GEOLOGICAL CONGRESS

27 AUGUST - 4 SEPTEMBER 2016 | CAPE TOWN, SOUTH AFRICA

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Cape Town, 9 February 2015

Greg Botha

Secretary-General 35th IGC Foundation















34th IGC, Brisbane, Australia; Summary

- 6012 delegates from 123 countries; only 180 from Africa
- 3712 oral presentations, up to 35 concurrent sessions on each of the 5 days;
- 13 Plenary presentations;
- 1469 poster presentations;
- 332 delegates participated in 22 pre- and post-Congress field trips, and 247 delegates participated in 8 single day trips;
- Approximately A\$1.7 Million was spent on the GeoHost support program;
 - o Full support for 150 delegates;
 - o Partial support for another 150 delegates;
 - o Approx 200 retirees got free or reduced registration in return for services;
- 75 business meetings;

35th IGC Local Organising Committee

Co-Presidents:	Richard Viljoen	Emeritus Professor, University of the Witwatersrand (Wits)
	Mxolisi Kota	Chief Executive Officer of the Council for Geoscience (CGS)
Secretary-General:	Greg Botha	CGS
Financial Chair:	Craig Smith	Geological Society of South Africa (GSSA)
Sponsorship Chair:	Mike Wuth	Consultant
Scientific Programme Chair:	Laurence Robb	Oxford University
Field Trip Chair:	Mike Lynn	MSA Group Services
Geohost Chair:	Jeannette McGill	Council for Scientific and Industrial Research (CSIR)
Legacy Chair:	Genevieve Pearson	Phoenix Geoconsulting
Volunteer Program Chair:	Elna van Niekerk	University of South Africa (UNISA)
Secretariat:	Danie Barnardo	CGS
	Juanita van Wyk	CGS
Professional Congress Organisers:	Lesley Ferreira	Cebisa Conferences
	Crystal Kasselman	Centeq Events

SCIENTIFIC PROGRAMME

STRANDS AND THEMES IGC35

Laurence Robb, Visiting Professor, Department of Earth Sciences, University of Oxford

GEOSCIENCE FOR SOCIETY

Gillian Drennan/Ed Swindell/Gabi Schneider

Geoheritage and Conservation

Geoscience Education and Public Communication

Major Geoscience Initiatives and Development

Programmes

Climate Change Studies

Groundwater and Hydrogeology

Soil Science

Geoscience Data and Information Systems

Public Sector Geoscience and Geological Surveys

Geohazards

Proximal and Remote Sensing Technologies

History of the Geosciences

Medical and Forensic Geology

Global Geoscience Professionalism and Geoethics

Geoscience benefitting Low-income Countries

Environmental Geoscience

15

FUNDAMENTAL GEOSCIENCE

Dave Reid / Marion Bamford / Steve McCourt

Sedimentary Processes - ancient to modern Basin Formation and Continental Margins

A Dynamic Earth

The Deep Earth

The Hadean and Archaean Earth

The Proterozoic Earth

Geochronology

Isotope Geoscience

Planetary Sciences and Meteorite Impacts

Magmatism - Setting, Composition, Processes

Metamorphic Processes

Mineralogy

Evolution of the Biosphere and Biogeoscience

Marine Geosciences and Oceanography

Arctic and Antarctic Geoscience

Surficial Processes and Landscape Evolution

Volcanology

Rock Deformation and Structural Geology

Palaeontology and Palaeo-anthropology

Instrumental, experimental and laboratory-

based developments in the Geosciences

20

TOTAL THEMES - 49

GEOSCIENCE IN THE ECONOMY

Rosemary Falcon/Ray Durrheim/Paul Nex

Mineral Resources and Evaluation

Mineral Exploration

Mineral Deposits and Ore Forming

Processes

Gold mineralizing systems

Coal

Petroleum Systems and Exploration

Unconventional Hydrocarbons and

Emerging Fuels

Energy in a Carbon Constrained World

Geostandards and Reference Materials
Applied Mineralogy and Geometallurgy

Mining Geology

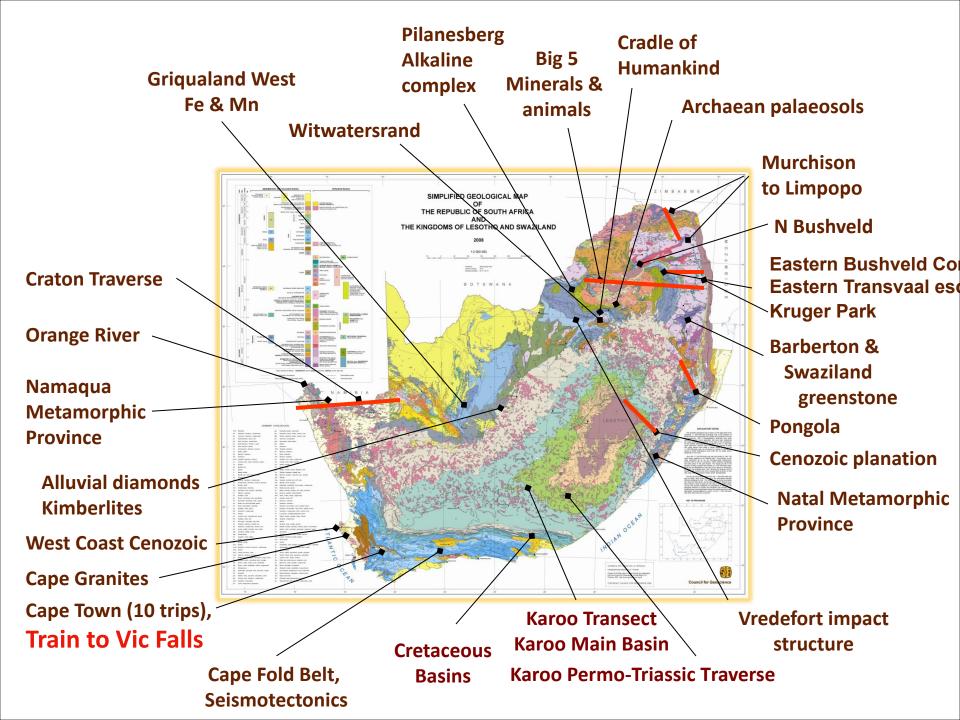
Engineering Geology and Geomechanics

The Urban Mine

Critical metals - a global perspective

14





Mali; gold mines

Ghana; gold

Botswana; Diamonds Okavango Delta

Angola; plateau to desert

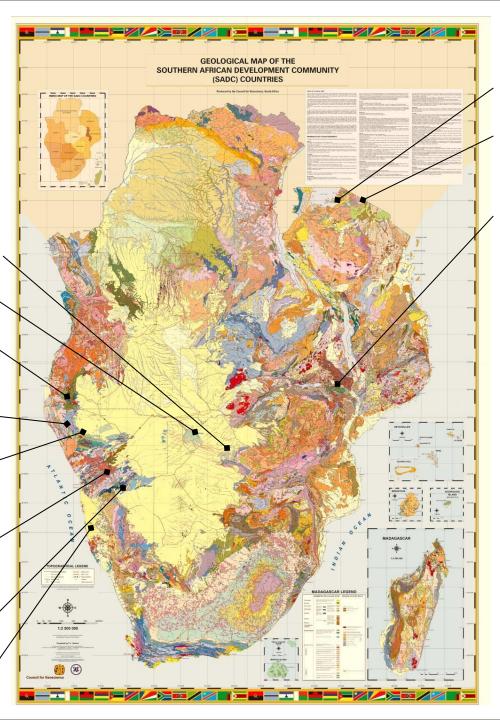
Namibia; Otavi karst

Namibia; Nama- _ Ediacaran

Namibia; Damara Traverse

Namibia; minerals

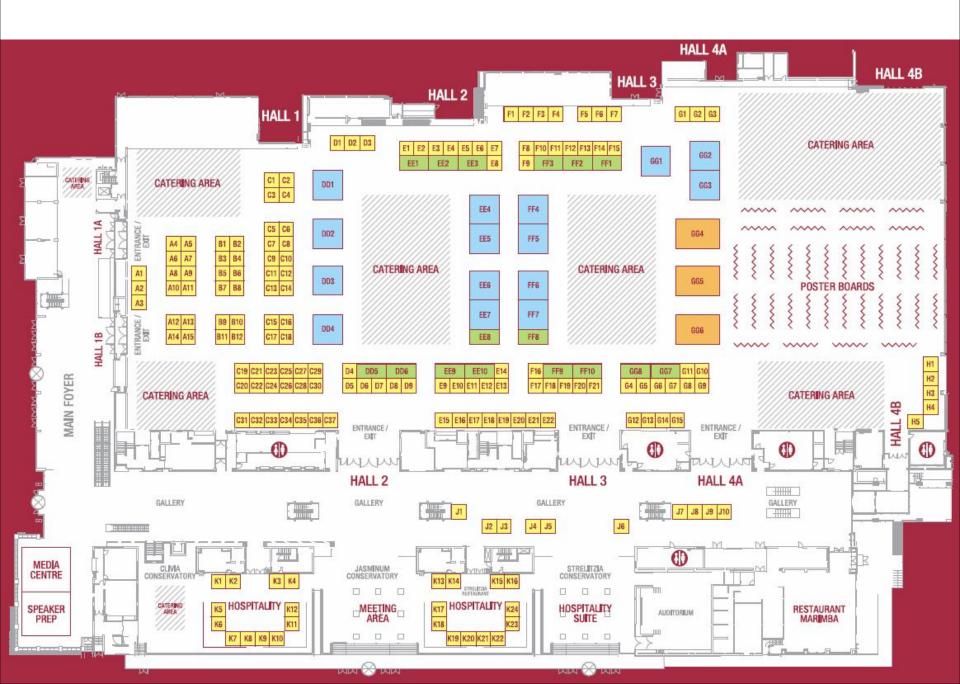
Namibia; diamonds



Tanzania Lake Victoria Gold

Rift Valley; Palaeontology; Gold, nickel, tanzanite

Exhibition; 280 stands. About 25% already sold.



GEOSCIENCE FOR SOCIETY		
	Theme Champion/s	Affiliations
Geoheritage and Conservation	Genevieve Pearson	Phoenix Geoconsulting
	Patrick McKeever	UNESCO
	Morris Viljoen	University of the Witwatersrand
Geoscience Education and Public Communication	Carlo Laj	European Geosciences Union
	Gillian Drennan	University of the Witwatersrand
	Paul Denton	British Geological Survey
Climate Change Studies	Gideon Henderson	University of Oxford
	Sidney Hemming	Columbia University
Groundwater and Hydrogeology	Tamiru Abiye	University of the Witwatersrand
	Shafik Adams	Water Research Commission
Soil Science	Michael Young	University of Texas
	David Manning	University of Newcastle
	Elmarie Kotze	University of the Free State
Geoscience Data and Information Systems	Kristine Asch	Bundesanstalt für Geowissenschaften und Rohsto
	Anna Nguno	Geological Survey of Namibia
	Jorgen Tulstrup	GEUS, Denmark
	Francois Robida	BRGM, France
Public Sector Geoscience and Geological Surveys	Gabi Schnieder	Geological Survey of Namibia
Geohazards	Andrzej Kijko	University of Pretoria
	Paulo Canuti	University of Firenze

Proximal and Remote Sensing Technologies	Tsehaie Woldai Luke Bateson	University of the Witwatersrand British Geological Survey
History of the Geosciences	Barry Cooper Sharad Master	University of South Australia University of the Witwatersrand
Medical and Forensic Geology	Hassina Mouri	University of Johannesburg
Global Geoscience Professionalism and Geoethics	Ruth Allington Oliver Bonham Andy Clay	GWP Consultants Geoscientists Canada Venmyn Deloitte
Geoscience benefitting low income countries	Shrikant Limaye	Ground Water Institute, Pune
Environmental Geosciences	Felix Toteu Kevin Leahy Vojtech Ettler	UNESCO

FUNDAMENTAL GEOSCIENCE		
	Theme Champion/s	Affiliation
Sedimentary Processes - ancient to modern	Ken Eriksson	Virginia Polytechnic Institute and State University
Basin Formation and Continental		
Margins	Nick Christie-Blick	Columbia University
	Tony Watts	University of Oxford
A Dynamic Earth	Cin-Ty Lee	Rice University
,	Lew Ashwal	University of the Witwatersrand
	John Dewey	University of Oxford
	Umberto Cordani	University of Sao Paulo
The Deep Earth	?	
·		University of
The Deep Earth The Hadean and Archaean Earth	Axel Hoffman	Johannesburg
·	Axel Hoffman Christophe Heubeck	Johannesburg University of Jena
·	Axel Hoffman	Johannesburg
·	Axel Hoffman Christophe Heubeck	Johannesburg University of Jena
·	Axel Hoffman Christophe Heubeck	Johannesburg University of Jena University of Mainz University of Johannesburg
The Hadean and Archaean Earth	Axel Hoffman Christophe Heubeck Alfred Kroener Nick Beukes	Johannesburg University of Jena University of Mainz University of Johannesburg Harvard
The Hadean and Archaean Earth	Axel Hoffman Christophe Heubeck Alfred Kroener	Johannesburg University of Jena University of Mainz University of Johannesburg
The Hadean and Archaean Earth	Axel Hoffman Christophe Heubeck Alfred Kroener Nick Beukes	Johannesburg University of Jena University of Mainz University of Johannesburg Harvard

University of

Isotope Geoscience	Adrian Boyce	University of Glasgow/SUERC		
Planetary Sciences and Meteorite Impacts				
Magmatism - Settings, Compositions and Processes	John Clemens	Stellenbosch University		
Mineralogy	?			
Metamorphic Processes	Mike Brown Dave Waters	University of Maryland University of Oxford		
Evolution of the Biosphere	?			
Marine Geosciences and Oceanography	Heather Bouman Zvi Ben-Avraham	University of Oxford Tel Aviv University		
Arctic and Antarctic Geoscience	Geoff Grantham Marc St Onge Sergey Shokalsky	Council for Geosciences Canadian Geological Survey VSEGEI		
Biogeoscience				

Surficial Processes and Landscape Evolution

Jasper Knight University of the Witwatersrand

University of

Yannick Lageat Western Brittany

Dianne Seward Victoria University

Volcanology David Pyle Universith of Oxford

Pavid Pyle Oxford Addis Ababa

Gezahegn Yirgu University

Universith of

Cynthia Ebinger Rochester

Rock Deformation and Structural Geology

Palaeontology and Palaeo-anthropology Ryan Tucker Stellenbosch University

Francis Thackeray University of the Witwatersrand

Instrumental, experimental and laboratory-based developments in the Geosciences

GEOSCIENCE IN TH	E ECONOMY
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Energy in a Carbon Constrained World

GEOSCIENCE IN THE ECONOMY		
	Theme Champion/s	Affilitation
Mineral Resources and Evaluation	Richard Minnitt	University of the Witwatersrand
	Matt Mullins	BHP Billiton
	Isobel Clark	Geostokos Ltd.
Mineral Exploration	Richard Herrington	Natural History Museum
	Dave Broughton	Ivanhoe Mines
Mineral Deposits and Ore Forming Processes	Jamie Wilkinson	Imperial College
	Yasushi Watanabe	AIST, Japan
	Nick Arndt	University of Grenoble
	Michael Meyer	RWTH-Aachen
Gold Mineralizing Systems (sponsored by SEG)		
Coal	John Hancox	CCIC
	Rosemary Falcon	University of the Witwatersrand
Petroleum Systems and Exploration	Mike Daly	University of Oxford
Total Cycles and Exploration	Noel Tyler	ARC Group
	Sospeter Muhongo	Ministry of Energy and Minerals, Tar
	K B Trivedi	PetroSA
Unconventional Hydrocarbons and Emerging		
Fuels	Annette Goetz	University of Pretoria

Sallie Greenberg

Illinois State Geological Survey

Geostandards and Reference Materials	Mike McWha	AMIS Ltd.
	Barry Smee	Smee & Associates Consulting
Applied Mineralogy and Geometallurgy	Fanus Viljoen	University of Johannesburg
Mining Geology	Kim Ncube-Hein	University of the Witwatersrand
Engineering Geology and Geomechanics	Francisco de Jorge	ENGEO, Brazil
The Urban Mine	?	
Critical Metals - a global perspective	?	

Workshops

Dr Grant Bybee

School of Geosciences, University of the Witwatersrand

IUGS Liason and Plenary Programme

Professor Hassina Mouri

Associate Professor, Department of Geology, University of Johannesburg

YES (Young Earth Scientists Network) representatives

Dr. Tanvi Arora

Secretary General, YES Network and Scientist, National Geophysical Research Institute, Hyderabad, India

Mr. Wang Meng

President, YES Network and Advanced Geologist, China Minmetals Corporation, China